

Client Ref.: 910015-0-US
Our ref: 0746-8152-US/final/Vincent/Steve

What is claimed is:

1 1. A method for power management of a smart phone
2 having a power system, a mobile phone system operated in a
3 standby, sleep, connection or off mode, and a PDA system
4 operated in a normal, sleep or off mode, the method
5 comprising steps of:
6 resetting the smart phone;
7 searching for network service for the mobile phone
8 system;
9 operating the mobile phone system in standby mode and
10 the PDA system in normal mode when the network is
11 located and connected to;
12 switching the mobile phone system from standby mode to
13 connection mode when establishing communication
14 with a remote terminal of the network;
15 switching the mobile phone system from standby mode to
16 sleep mode when the mobile phone system has been
17 idle for a first period of time;
18 switching the PDA system from normal mode to sleep mode
19 when the PDA system has been idle for a second
20 period of time; and
21 implementing a power detection method comprising steps
22 of:
23 detecting an amount of power of a source in the
24 power system;
25 switching the mobile phone system to off mode
26 when the detected amount is less than a
27 first threshold; and

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28 switching the PDA system to off mode when the
29 detected amount is less than a second
30 threshold.

1 2. The method as claimed in claim 1 further
2 comprising the step of:

3 switching the mobile phone system to sleep mode when
4 the network fails to be either located or
5 connected to.

1 3. The method as claimed in claim 2 further
2 comprising the step of:

3 searching for network service while the mobile phone
4 system remains in sleep mode for a third period
5 of time.

1 4. The method as claimed in claim 1 further
2 comprising the step of:

3 switching the mobile system from connection mode to
4 standby mode when the communication is
5 terminated.

1 5. The method as claimed in claim 1, wherein the
2 mobile phone system is switched to off mode when being
3 turned off.

1 6. The method as claimed in claim 1, wherein the PDA
2 system is switched from sleep mode to normal mode when being
3 awoken.

1 7. The method as claimed in claim 1, wherein the PDA
2 system is switched to off mode when being turned off.

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1 8. The method as claimed in claim 1, wherein the
2 second period of time is longer than the first period of
3 time.

1 9. The method as claimed in claim 1, wherein the
2 first threshold is larger than the second threshold.

1 10. The method as claimed in claim 1, wherein the
2 power detection method is implemented every fourth period of
3 time.

1 11. The method as claimed in claim 1, wherein the PDA
2 system displays a warning message when the mobile phone
3 system is switched to off mode due to the detected amount of
4 power less than the first threshold.

1 12. The method as claimed in claim 1, wherein the PDA
2 system displays a warning message when the PDA system is
3 switched to off mode due to the detected amount of power
4 less than the second threshold.

1 13. The method as claimed in claim 1, wherein the
2 source of the power system is a battery.

1 14. The method as claimed in claim 1 further
2 comprising steps of:

3 charging the source in the power system; and
4 switching the mobile phone system from off mode to
5 standby mode when the amount of power of the
6 source detected is larger than the first
7 threshold.

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1 15. The method as claimed in claim 1 further
2 comprising steps of:
3 charging the source in the power system; and
4 switching the PDA system from off mode to normal mode
5 when the amount of power of the source detected
6 is larger than the second threshold.